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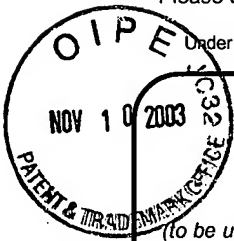
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TRANSMITTAL FORM

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/614,313
	Filing Date	July 7, 2003
	First Named Inventor	Pekonen
	Group Art Unit	2681
	Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number 04770.00116

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO/SB/08A 51 References Express Mail Certificate Return Receipt Postcard		
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Firm or Individual name	Kenneth F. Smolik Banner & Witcoff, Ltd.
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Date	November 10, 2003

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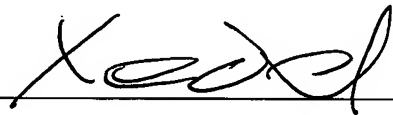


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Attorney Docket No. 04770.00116

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By: 

Pekonen, U.S. Patent Application No. 10/614,313 for "PROTOCOL USING FORWARD ERROR CORRECTION TO IMPROVE HANDOVER"

- Transmittal Form (in duplicate)
- Information Disclosure Statement (4 pages)
- PTO/SB/08A (2 pages)
- 51 References
- Return Receipt Postcard



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 004770.00116)

In re U.S. Patent Application of Harri Pekonen)	
)	
Application No. 10/614,313)	Group Art Unit: 2681
)	
Filed: July 7, 2003)	Examiner: Unassigned
)	
For: PROTOCOL USING FORWARD ERROR CORRECTION TO IMPROVE HANDOVER)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Pursuant to 37 CFR §§1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 CFR §1.56. Copies of the references cited below are enclosed. The references are also listed on the enclosed and completed Form PTO/SB/08A.

This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the mailing date of a first Office Action on the merits. Accordingly, there is no fee due for filing this Information Disclosure Statement. However, if it is determined that a fee is due, the Commissioner is authorized to charge or credit any fees associated with this paper to Deposit Account No. 19-0733.

Under 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made.

Under 37 CFR §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the cited references are, or are considered to be, material to patentability as defined in 37 CFR §1.56(b).

The present patent application is related to the following co-pending patent applications:
10/087,437; 10/085,910; 10/075,150; 10/075,434; 10/237,404; and 10/252,549.

U.S. References

Inventor	Application/ Patent No.	Issued
Salo, et. al.	2002/0010763 A1	01/24/2002
Kawamata, et. al.	2002/0025777 A1	02/28/2002
Arsenault, et. al.	2003/0067943 A1	04/10/2003
Leslie, et. al.	4,449,248	05/15/1984
Harte	5,224,152	06/29/1993
Castelain, et. al.	5,307,376	04/26/1994
Fischer	5,371,734	12/06/1994
Jonsson, et. al.	5,513,246	04/30/1996
Yli-Kotila, et. al.	5,539,925	07/23/1996
Croft, et. al.	5,568,513	10/22/1996
Kivari, et. al.	5,613,235	03/18/1997
Takahashi, et. al.	5,657,313	08/12/1997
Pastepak, et. al.	5,710,756	01/20/1998
Takahashi, et. al.	5,732,068	03/24/1998
Kallin	5,745,860	04/28/1998
Baggen	5,799,033	08/25/1998
Tuutijarvi, et. al.	5,870,675	02/09/1999
Dahlman, et. al.	5,883,899	03/16/1999
Arsenault, et. al.	5,886,995	03/23/1999
Lardennois	5,995,845	11/30/1999
Suonvieri	6,047,181	04/04/2000
Ott	6,088,412	07/11/2000
Hamalainen, et. al.	6,167,248	12/26/2000

Inventor	Application/ Patent No.	Issued
Diachina, et. al.	6,175,557	01/16/2001
Bursztejn, et. al.	6,226,278	05/01/2001
Oshima	6,256,357	07/03/2001
Donahue et. al.	6,262,982	07/17/2001
Ejiri	6,262,990	07/17/2001
Kataoka, et. al.	6,282,209	08/28/2001
Sharma	6,285,686	09/04/2001
Lyer	6,295,450	09/25/2001
Twitchell, et. al.	6,335,766	01/01/2002
Hansson, et. al.	6,339,713	01/15/2002
Rakib, et. al.	6,356,555	03/12/2002
Mansfield, et. al.	6,477,382	11/05/2002
Nazarathy, et. al.	6,490,727	12/03/2002

Foreign Patent Document

Document No.	Publication Date
WO 00/67449	11/09/2000
WO 00/36861	06/22/2000
WO 01/72076	09/27/2001
WO 01/31963	05/03/2001
WO 02/03729	01/10/2002
WO 02/03728	01/10/2002
WO 02/01879	01/03/2002

Other Prior Art

Apostolis K. Salkintzis et al. 'An In-Band Power-Saving Protocol for Mobile Data Networks'
IEEE Transactions on Communications, Vol. 46, No.9, Sept. 1998, pgs. 1194-1205.

Apostolis K. Salkintzis et al. 'Performance Analysis of a Downlink Mac Protocol with Power-Saving Support", IEEE Transactions on Vehicular Technology, Vol. 49, No.3, May 2000, pages 1029-1040

DEERING S., Host Extensions for IP Multicasting, Network Working Group, August 1989, 1-16, Stanford, California

Digital Video Broadcasting (DVB); DVB Specification for Data Broadcasting, European Telecommunications Standard Institute, January 2003, 1-58, ETSI EN 301 192 v1.3.1, France.

Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB Systems, European Telecommunications Standard Institute, May 2003, 1-93, ETSI EN 300 468 v.1.5.1, France.


Draft Report of the 52nd Meeting of DVB GBS, EBU Headquarters, Geneva, June 25'"J27'" 2002. pages 1-12.

RFC3452: Forward Error Correction (FEC) Building Block, captured February 26, 2003, <http://rfc3452.x42.com>.

RFC3453: The Use of Forward Error Correction (FEC) in Reliable Multicast, captured February 26, 2003, <http://rfc3453.x42.com>.

Date: November 10, 2003

Respectfully submitted,

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/614,313
Filing Date	July 7, 2003
First Named Inventor	Pekonen
Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	04770.00116

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		2002/0010763 A1	01/24/2002	Salo, et al.	
		2002/0025777 A1	02/28/2002	Kawamata, et al.	
		2003/0067943 A1	04/10/2003	Arsenault, et al.	
		US 4,449,248	05/15/1984	Leslie, et al.	
		US 5,224,152	06/29/1993	Harte	
		US 5,307,376	04/26/1994	Castelain, et al.	
		US 5,371,734	12/08/1994	Fischer	
		US 5,513,246	04/30/1996	Jonsson, et al.	
		US 5,539,925	07/23/1996	Yli-Kotila, et al.	
		US 5,568,513	10/22/1996	Croft, et al.	
		US 5,613,235	03/18/1997	Kivari, et al.	
		US 5,657,313	08/12/1997	Takahashi, et al.	
		US 5,710,756	01/20/1998	Pasternak, et al.	
		US 5,732,068	03/24/1998	Takahashi, et al.	
		US 5,745,860	04/28/1998	Kallin	
		US 5,799,033	08/25/1998	Baggen	
		US 5,870,675	02/09/1999	Tuutijarvi, et al.	
		US 5,883,899	03/16/1999	Dahlman, et al.	
		US 5,886,995	03/23/1999	Arsenault, et al.	
		US 5,995,845	11/30/1999	Lardennois	
		US 6,047,181	04/04/2000	Suonvieri	
		US 6,088,412	07/11/2000	Ott	
		US 6,167,248	12/26/2000	Hamalainen, et al.	
		US 6,175,557	01/16/2001	Diachina, et al.	
		US 6,226,278	05/01/2001	Bursztejn, et al.	
		US 6,256,357	07/03/2001	Oshima	
		US 6,262,982	07/17/2001	Donahue, et al.	
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		US 6,282,209	08/28/2001	Kataoka, et al.	
		US 6,285,686	09/04/2001	Sharma	
		US 6,295,450	09/25/2001	Lyer	
		US 6,335,766	01/01/2002	Twitchell, et al.	
		US 6,339,713	01/15/2002	Hansson, et al.	
		US 6,356,555	03/12/2002	Rakib, et al.	
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		US 6,490,727	12/03/2002	Nazarathy, et al.	



FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
		WO 00/67449		11/09/2000			
		WO 00/36861		06/22/2000			
		WO 01/72076		09/27/2001			
		WO 01/31963		05/03/2001			
		WO 02/03729		01/10/2002			
		WO 02/03728		01/10/2002			
		WO 02/01879		01/03/2002			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Apostolis K. Salkintzis et al. 'An In-Band Power-Saving Protocol for Mobile Data Networks' IEEE Transactions on Communications, Vol. 46, No.9, Sept. 1998, pgs. 1194-1205.	
		Apostolis K. Salkintzis et al. 'Performance Analysis of a Downlink Mac Protocol with Power-Saving Support', IEEE Transactions on Vehicular Technology, Vol. 49, No.3, May 2000, pages 1029-1040	
		DEERING S., Host Extensions for IP Multicasting, Network Working Group, August 1989, 1-16, Stanford, California	
		Digital Video Broadcasting (DVB); DVB Specification for Data Broadcasting, European Telecommunications Standard Institute, January 2003, 1-58, ETSI EN 301 192 v1.3.1, France.	
		Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB Systems, European Telecommunications Standard Institute, May 2003, 1-93, ETSI EN 300 468 v.1.5.1, France.	
		Draft Report of the 52nd Meeting of DVB GBS, EBU Headquarters, Geneva, June 25 th /J27 th 2002. pages 1-12.	
		RFC3452: Forward Error Correction (FEC) Building Block, captured February 26, 2003, http://rfc3452.x42.com .	
		RFC3453: The Use of Forward Error Correction (FEC) in Reliable Multicast, captured February 26, 2003, http://rfc3453.x42.com	

Examiner Signature		Date Considered	
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